

OFFICE MEMORANDUM

DATE: December 21, 2001

TO: Region Engineers

Region Associate Delivery Engineers Region Construction Engineers

Resident/Project Engineers/TSC Managers

FROM: Larry E. Tibbits

Chief Operations Officer

Gary D. Taylor

Chief Engineer/Deputy Director

Bureau of Highway Technical Services

SUBJECT: Bureau of Highway Instructional Memorandum 2001-20

Witnessing and Custody of Ride Quality Measurements

To assure the integrity of the final evaluation process for measurement and payment of the ride quality pay item, the following changes are to become effective immediately on all department pavement and bridge contracts.

All ride quality measurements for a pavement or bridge, when required for payment or acceptance purposes, must be witnessed by the engineer or appointed representative. Upon completion of the measurements, the engineer is to take immediate possession of the ride quality records. Attached is a check list of items to be reviewed and documented.

The engineer will evaluate the ride quality measurement records and determine eligibility for incentive and/or any corrective actions required.

All final surface grinding and ride quality measurements must be completed prior to any incentive/disincentive date stated in the contract. No "open to traffic incentive" will be paid on days prior to the final ride quality acceptance, even if the pavement or bridge has been open to traffic. Future contracts should clarify this requirement in the contract progress schedule.

If you have questions concerning these issues, please contact John LaVoy (517-322-5698), Mike Frankhouse (517-322-5672), or Tom Hynes (517-322-5711).

Chief Operations Officer
Chief Engineer/Deputy Director
Bureau of Highway Technical Services
Attachment

BOHTS:C/T:JDC:kab Subject Index: Bituminous

C & T Division Staff C & T Div., J. Culp **ACEC** B. Jay MCA OEO-S. El Ahmad Real Estate, M. Frierson K. Trentham MAA MPA Design, P. Miller J. Klee MRBA AUC Maintenance, C. Roberts C. Rademacher MAPA CRAM Traffic & Safety, J. O'Doherty V. Blaxton **MCPA MRPA**

	eck List for Witnessing e Quality Measurements	
For California Profilographs (refer to Michigan Test Method 725)		
The profilograph is in good mechanical con	edition (section 4.4.)	
Tire pressure is per manufacturer's recomm	endations	
Horizontal calibration (odometer) is within	specified limits (sections 4.2 and 4.3	
Vertical calibration (cal. block) is within sp	pecified limits (section 4.2)	
For each run, the profilograph starts and end the correct location (see applicable specific		
Date, time, control section and job number	are indicated on each profile	
Contractor provided the following informat ending location, lane, and wheel path.	ion for each run: starting location,	
For computerized profilographs, the station matches the stationing of the road.	ing on each run	
The following parameters match specification	on requirements:	
	Normally Specified Value (verify in proposal)	Actual Value Used
Blanking band width	0 or 5 mm	
Bump height	8 mm (12.5 mm for leveling)	
Bump length	25 mm on trace (8 m actual)	

Name (Printed)

Date

Control Section _____ Job # ____

Signature

All traces and any data files have been provided to MDOT

Control Section	Job #
-----------------	-------

Check List for Witnessing Ride Quality Measurements

For Lightweight Profilometers (ref	er to Michigan Test Method 726)		
The profilometer is in good mechanic computer securely mounted, laser beautiful transfer in the profile of the	cal condition (laser securely mounted, am is not obstructed)	_	
Tire pressure is per manufacturer's re	commendations		
System operation verified by a bounc	e test		
Horizontal calibration(odometer) is w	vithin specified limits (sections 4.3)		
Vertical calibration is within specified	d limits (section 4.4)	_	
For each run, the profilometer starts a	and ends in the correct location (see app	plicable specification)	
Date, time, control section and job nu	umber are indicated on each profile		
Contractor provided information for a lane and wheel path.	each run: starting location, ending loca	tion,	
The stationing of each run matches th	e stationing of the road		
Bump and dip detection activated			
The following parameters match spec	ification requirements:		
	Normally Specified Value (verify in proposal)	Actual Value Used	
Blanking band width	0 or 5 mm		
Bump height	8 mm (12.5 mm on leveling)		
Bump length	25 mm on trace (8 m actual)		
Scallop rounding	1 mm		
Low pass filter	0.61 m		
High pass filter	95.8 m		
All traces and data files have been pro	ovided to MDOT		
Signature	Name (Printed)	Date	